

WORKING PAPER

13 FEB 1981

NOTE FOR: William Donnelly  
DDO/IMS

FROM: [REDACTED]  
Information Handling Systems Architect

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Bill:

1. Your people have been extremely helpful in the briefings they have given me about the DDO's information handling system. The briefings have been thorough and knowledgeable, and I greatly appreciate the open spirit in which they were given. [REDACTED]

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2. I have been left with some concerns about CRAFT, however, which I want to pass along. Basically, I don't think your people are as far along as they think they are. The CRAFT description document which I have been given falls short of the sort of system design specification I think is needed to base a major project commitment upon. Hardware acquisition, in particular, should be done on the basis of a much clearer definition of exactly what the system has to support. [REDACTED]

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3. To clarify what I have in mind, I have enclosed a list of the sort of questions that such a specification should answer in the case of CRAFT. You will see that missing from the list are things like the acquisition strategy, top-level procurement plan, test plan, and funding, etc--the items you have in appendices A and B of the CRAFT Project Proposal--because I think these are best put in a separate Project Management Plan. I think there are a number of good reasons for keeping them as separate documents. [REDACTED]

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4. I understand that the teams who visited Wang on 27 January came away very enthusiastic about what they saw, so much so that there seems to have been talk about designing around Wang [REDACTED]

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[REDACTED] Personally, I think any such suppositions are premature [REDACTED]

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[REDACTED] As you can discern from the list, I think a lot of work still needs to be done before such a decision can be made. With respect to the Wang system, my concerns are focused on these matters:

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a. I understand that Wang's WPS and OIS systems are implemented in BASIC. The introduction of BASIC as a HOL for large system development is a major concern. It is a great language for analysts but a poor one for use in systems implementation. In addition, it is inherently inefficient because it is interpreted rather than compiled. I would hate to see it get started in the Agency as a systems implementation language in this context. [REDACTED]

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b. Are you sure that you do not want a graphics capability? WP terminals simply will not provide it. I am concerned that you may have overlooked something you are going to want badly, maybe not in the initial implementation, but not too far downstream either. If the system host hasn't been selected with that in mind, retrofitting it could prove to be extremely expensive. A graphics capability also bears on the MERCURY bandwidth requirement.

c. I think the security requirements may need to be worked a bit more. Are standalone WPs acceptable? They may present security problems in terms of rapid, assured data destruction associated with floppies, that a hosted terminal system would not. Would security classification identifications appear on all screens?

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5. Since I understand that funds for CRAFT acquisition are programmed in FY-82, time appears to be short. A lot needs to be done to be ready to make the key decisions at that point. After you have had a chance to think about these comments, I would appreciate having your thoughts. Maybe the IHSA can help.

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Attachment:

Questions Relevant to a CRAFT  
System Design Specification

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